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FIG. 1

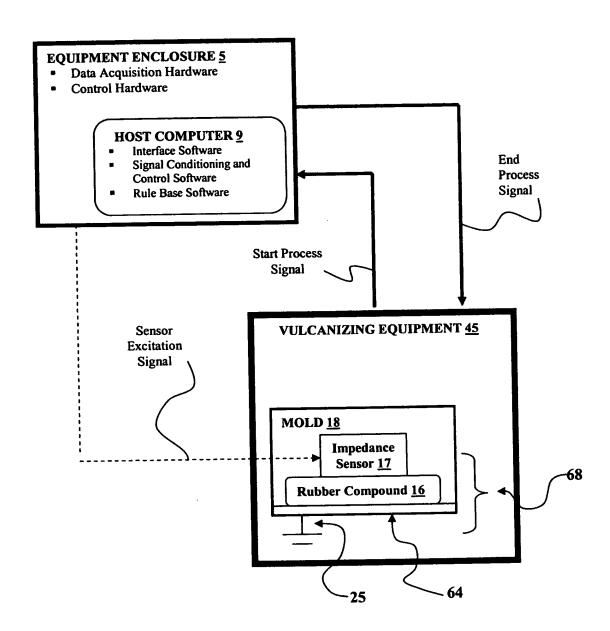


FIG. 2

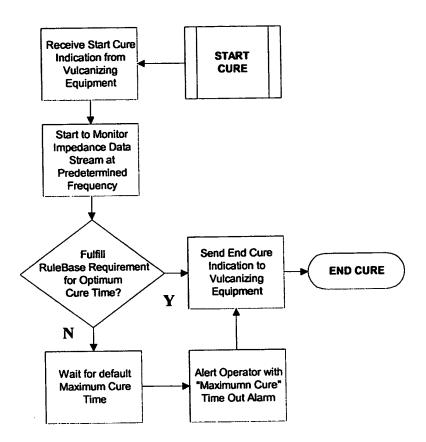


FIG. 3

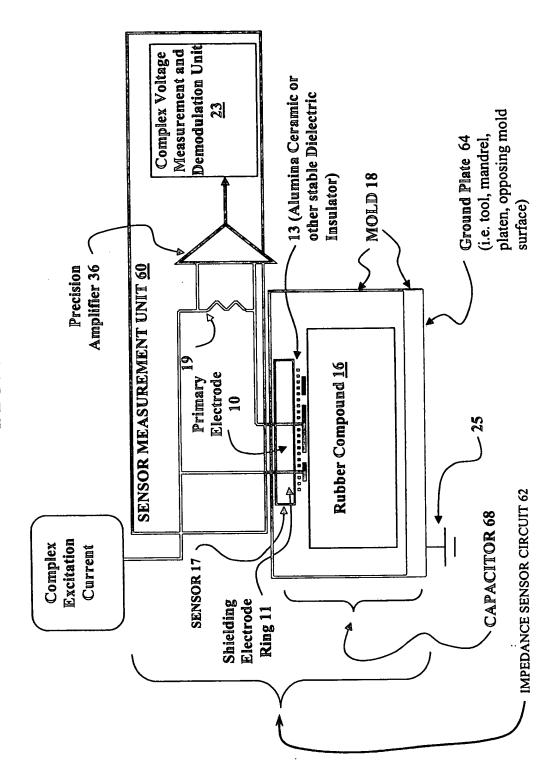


FIG. 4

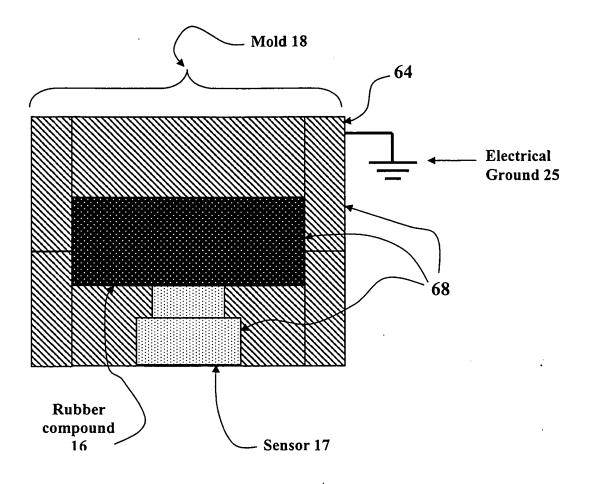
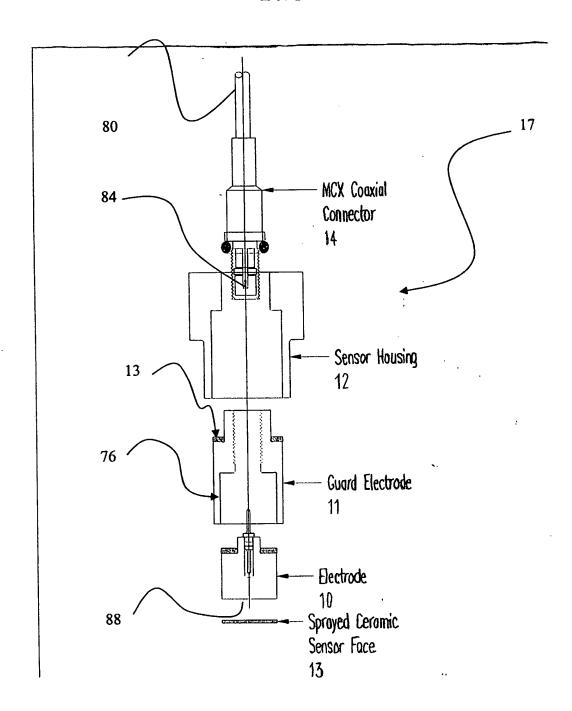


FIG. 5



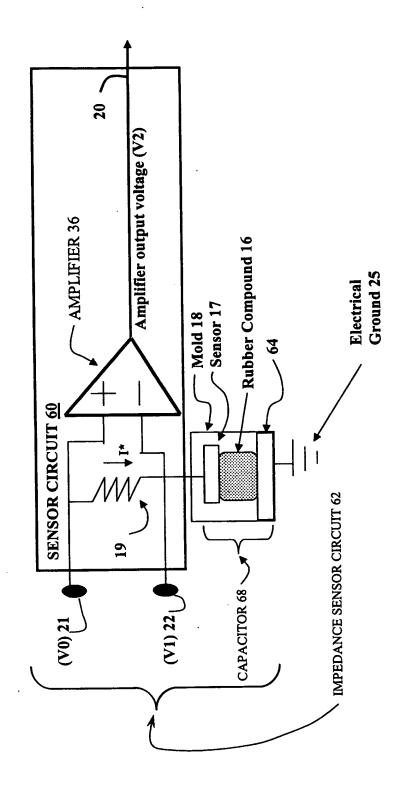


FIG. 7

Typical Cure Data, Capacitance (C) at 4 frequencies (3kHz to 9 kHz)

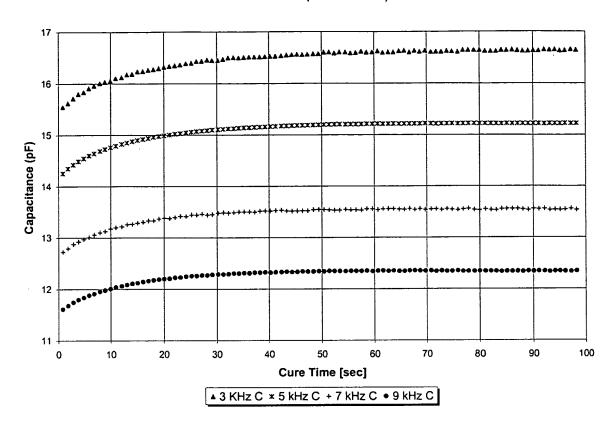
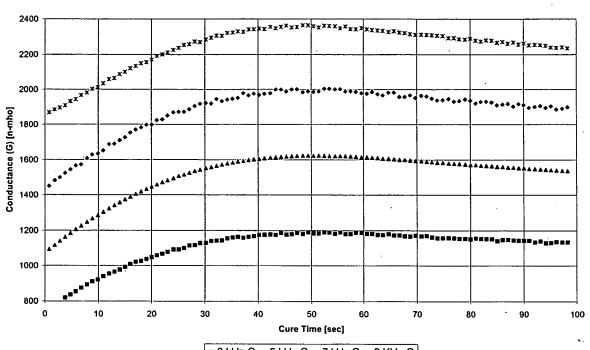


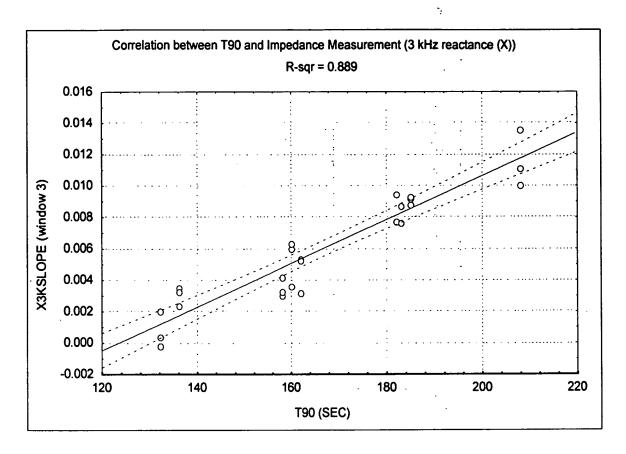
FIG. 8

Typical Cure Data, Conductance (G) at 4 frequencies (3kHz to 9 kHz)



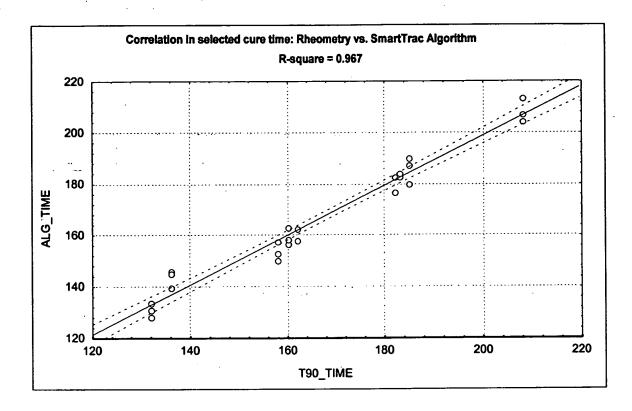
■ 3 kHz G ▲ 5 kHz G ◆ 7 kHz G × 9 KHz G

FIG. 9



- o Data Point: coordinates being (for a given curing condition): Evaluator 6 determined time, and a corresponding rheometrically determined cure time.
- Best Fit through the Data Points
- --- 95% Confidence Intervals

FIG. 10



- Data Point: coordinates being (for a given curing condition): a determined time from a selected four-term multiple regression instance of Equation 2, and a corresponding rheometrically determined cure time.
- Best Fit through the Data Points
- ---- 95% Confidence Intervals

FIG. 11

Compression set vs. Modifier setting

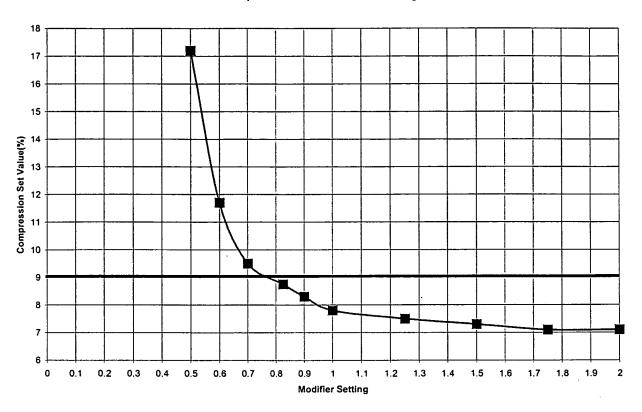


FIG. 12

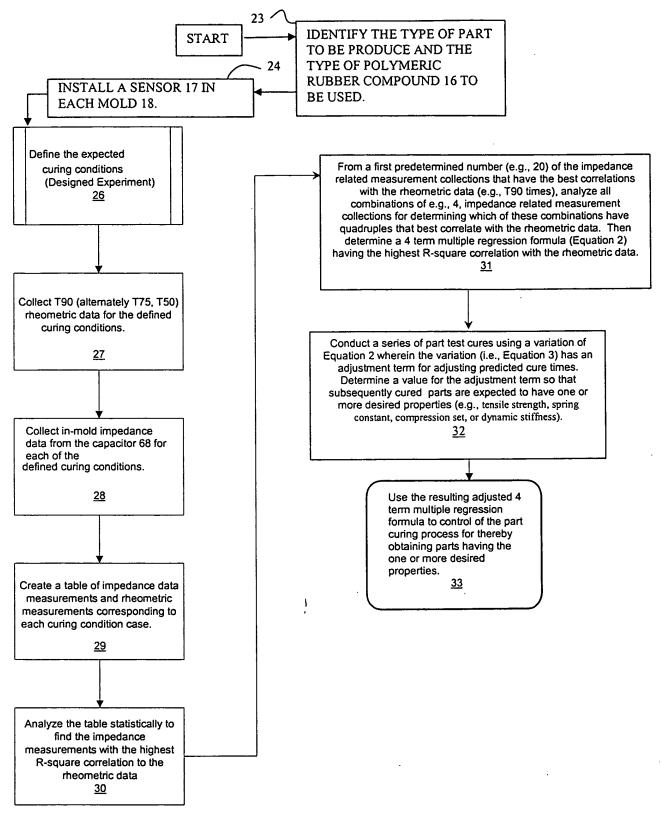


FIG. 13

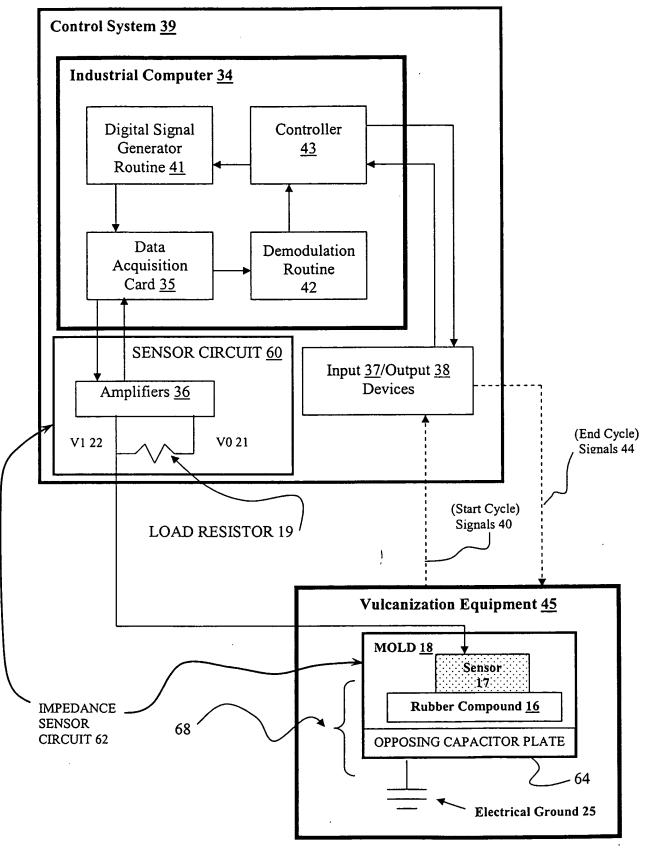
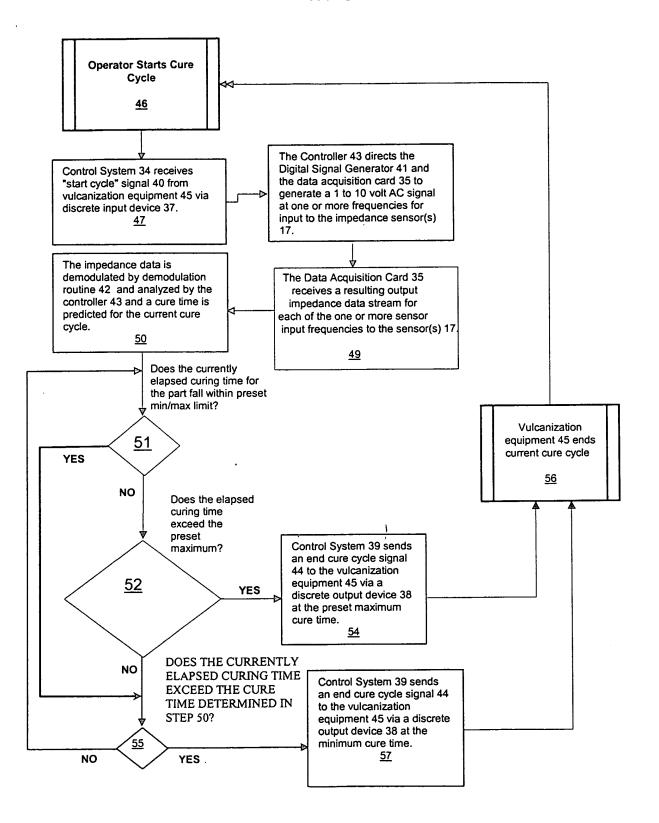
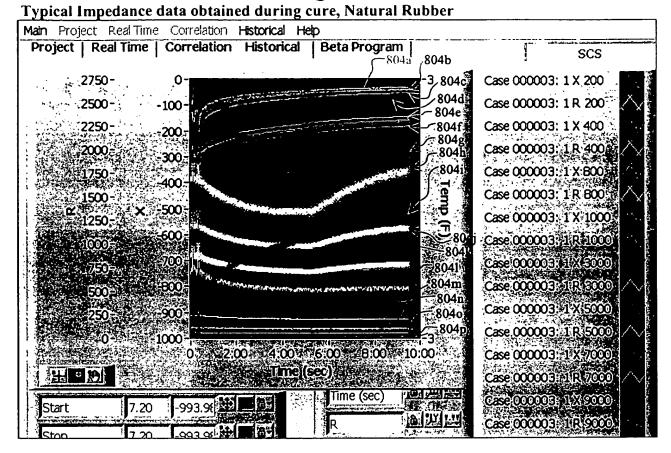


FIG. 14



`Fig. 15

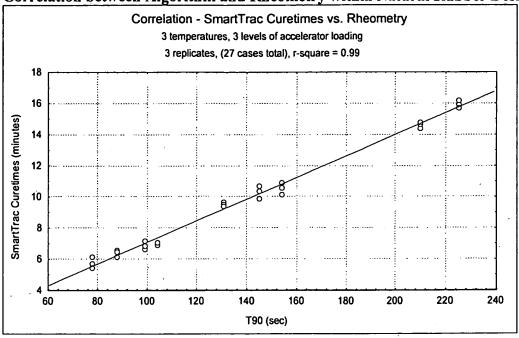


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Fig. 16
Conditions and Rheometry for Natural Rubber Designed Experiment

	and the second	
temperature (deg C)	accelerator loading	T90 (sec)
165	low	225
173	<i>i</i>	
185	low	99
165	กองฟกล่	219
175	nominal	131
185	promad.	\$3
165	high	154
175	Injoi	104
185	high	78

Fig. 17
Correlation between Algorithm and Rheometry within Natural Rubber Designed Experiment

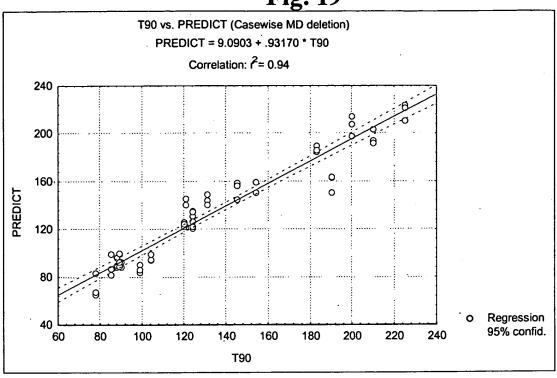


- o Data Point: coordinates being for (a given curing condition): a determined time from a selected four-term multiple regression instance of Equation 3, and a corresponding rheometrically determined cure time.
- Best Fit through the Data Points
- ---- 95% Confidence Intervals

Fig. 18

nditions and Rheometry for Broad Sampling of Natural Rubber Batches					
16140110 4116 1					
Batch ID	Cure Characteristic	Hardness	Temp (C)	T90 (sec	
AA22120-1	slow curing	nominal	165	225	
AA22120-1	slow curing	nominal	175	144.6	
AA22120-1	slow curing	nominal	185	99	
AA17120 3	บันทักกับสุร ระ หรือกรับกั	the state production			
An. 2120 3	nginnal perinceron	good of the growthern we			
A.A.12(20) 3	nominal priscussion	्रा सामान्य विकासिक स्था	F 17		
AA32120-1	fast curing	nominal	165	153.6	
AA32120-1	fast curing	nominal	175	103.8	
AA32120-1	fast curing	nominal	185	78	
AA12259 1	ជួចជាប់នៅ	30ft	145	3.7	
AA [1250]	न्त्रामुखर्ग	1896			
AVA 1005945	ionmei .	656	1.05	1 64 1	
AA12189-1	nominal	hard	165	189.6	
AA12189-1	nominal	hard	175	123.6	
AA12189-1	nominal	hard	185	88.2	
AA1212045	months Greet of	त्वाक्रीमार्थ प्राप्तां व्यापनी व्यापन	165	1 4 5	
AA12120-15	nominal production	त्रक्षात्रस् नार्क्षात्रम्	173	13: 2	
ZV.j2120:15.	and promote the second	វាសារាវនៅមជ្ឈចំពែធនីណ៍	-1188	84.4	
AA12120-23	nominal-production	nominal-production	175	120	

Fig. 19



- o Data Point: coordinates being (for a given curing condition): a determined time from a selected four-term multiple regression instance of Equation 3 for natural rubber, and a corresponding rheometrically determined cure time.
- Best Fit through the Data Points
- ---- 95% Confidence Intervals

Fig. 20

TEMPERATURE

	165 C	175 C	180 C				
AA22120-1 slow curing	6 samples 11:10 (predicted cure time)	6 samples 8:10 (predicted cure time)					
AA12120-57 production batch	4 samples 10:46 (predicted cure time)	7 samples 7:52 (predicted cure time)	·				
AA12120-58 production batch		6 samples 7:56 (predicted cure time)	8 samples 7:05 (predicted cure time)				
AA32120-1	7 samples 9:11 (predicted cure time)	5 samples 7:13 (predicted cure time)	8 samples 6:09 (predicted cure time)				

BATCH IDENTIFIER